SBR 1502

Properties and Characteristics

SBR 1502 is produced with the patent technique licensed from Zeon, Japan. The whole unit is designed and provided by Mitsubishi Heavy Industries Ltd. Using butadiene and styrene as main feedstock, SBR is produced at low temperatures through the process of emulsion polymerization. SBR possesses outstanding abrasion resistance, age resistance, ozone resistance, water resistance, and air-tightness. Its homogenous characteristics allow for blending with natural rubbers in any proportion.

Specifications

Property	Value
CAS Number	61789-96-6
Appearance	Yellow
Other Names	Styrene Butadiene Rubber 1502
Molecular Formula	$C_{36}H_{42}X_2$
Molecular Weight	474.72

Item	Unit	SBR 1502 Index
Volatiles	% ≤	0.90
Ash	% ≤	0.50
Organic Acid	%	4.50 – 6.75
Soap	% ≤	0.50
Bound Styrene	%	22.5 – 24.5
Oil Content	%	—
Raw Viscosity	ML(1+4) 100°C	44 – 56
Compound Viscosity	ML(1+4) 100°C ≤	93
300% Modulus	(145°C, 25min) MPa ≥	15.5 ± 2.5
300% Modulus	(145°C, 35min) MPa ≥	20.6 ± 2.5
300% Modulus	(145°C, 50min) MPa ≥	21.5 ± 2.5
Tensile Strength	(145°C, 35min) MPa ≥	24.5
Elongation at Break	(145°C, 35min) % ≥	330

*According to standard SBR1502 (GB12824-91)

Applications

SBR 1502 is a light-colored, non-staining and non-oil extended synthetic rubber whose properties are nearly the same as those of SBR1500 in that it also possesses excellent tensile strength, abrasion resistance, and flex resistance. SBR1502 can be widely used for bright-colored and light-colored rubber products such as tire sidewalls, transparent footwear, rubberized fabrics, medical rubber products, and other conventional colorful rubber articles.

Packaging

35kg net weight internal polyethylene-coated plastic woven bags, or as required by customer.

Storage

Store in a cool, dry, and well-ventilated place, away from direct sunlight and moisture.